

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Michael HARVILLE

Confirmation No.:

Application No.: 10/698,111

Examiner:

Filing Date: 10/31/03

Group Art Unit:

Title: A METHOD FOR VISUAL-BASED RECOGNITION OF AN OBJECT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

☒ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 01/22/04

OR

☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number _____ on _____ Number of pages: _____

Typed Name: Desiree Caldwell

Signature: Desiree Caldwell

Respectfully submitted,

Michael HARVILLE

By _____

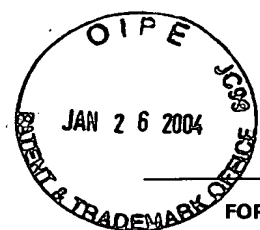
John P. Wagner, Jr.

Attorney/Agent for Applicant(s)

Reg. No. **35,398**

Date: **01/22/04**

Telephone No.: **(408) 938-9060**

**PATENT APPLICATION**

Sheet 1 of 5

FORM PTO-1449

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

200310949-1

APPLICATION NO.

10/598,111

CONFIRMATION NO.

APPLICANT

Michael HARVILLE

FILING DATE

10/31/03

GROUP

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

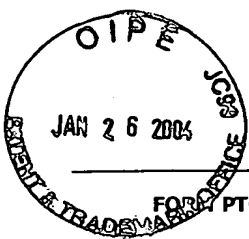
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Ismail HARITAOGU, et al.; "GHOST 3D: DETECTING BODY POSTURE AND PARTS USING STEREO"; 2002 IEEE Proceedings of the Workshop on Motion and Video Computing (MOTION '02)
1R	Salvador RUIZ-CORREA, et al.; "A NEW PARDIGM FOR RECOGNIZING 3-D OBJECT SHAPES FROM RANGE DATA"; Pages 1-8; ICCV 2003 published in IEEE ICCV conference, Nice, France, October 13-1+ 6, 2003
1S	Gregory SHAKHNARIVICH, et al.; "FAST POSE ESTIMATION WITH PARAMETER-SENSITIVE HASHING"; Pages 1-8; ICCV 2003 published in IEEE ICCV conference, Nice, France, October 13-1+ 6, 2003

EXAMINER

DATE CONSIDERED



PATENT APPLICATION

Sheet 2 of 5

PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200310949-1

APPLICATION NO.

10/698,111

CONFIRMATION NO.

APPLICANT

Michael HARVILLE

FILING DATE

10/31/03

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

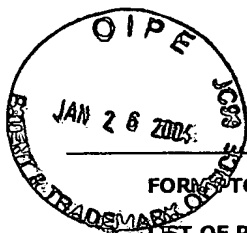
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Louis-Philippe MORENCY, et al.; "POSE ESTIMATION USING 3D VIEW-BASED EIGENSPACES"; published in IEEE International workshop on Analysis and Modeling of Faces and Gestures, Nice, France, October 17, 2003
1R	"IMAGE UNDERSTANDING WORKSHOP Proceedings of a Workshop held in Monterey, California"; November 13-16, 1994, Pages 559-581 and 583
1S	Romer ROSALES, et al.; "ESTIMATING 3D BODY POSE USING UNCALIBRATED CAMERAS"; Published in IEEE CVPR conference, December 2001

EXAMINER

DATE CONSIDERED

**PATENT APPLICATION**

Sheet 3 of 5

FORM PTO-1449

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

200310949-1

APPLICATION NO.

10/598,111

CONFIRMATION NO.

APPLICANT

Michael HARVILLE

FILING DATE

10/31/03

GROUP

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	N. KRAHNSTOEVE, et al.; "AUTOMATIC ACQUISITION AND INITIALIZATION OF KINEMATIC MODELS" Pages 1-5, Published in IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2001, Kauai, Hawaii, December 2001
1R	Yoshio Iwai; "POSTURE ESTIMATION USING STRUCTURE AND MOTION MODELS"; Published in IEEE ICCV Conference, September 1999
1S	Michele COVELL, et al.; "ARTICULATED-POSE ESTIMATION USING BRIGHTNESS- AND DEPTH-CONSTANCY CONSTRAINTS" Published in IEEE CVPR '00, June 2000

EXAMINER

DATE CONSIDERED

**PATENT APPLICATION**

Sheet 4 of 5

PTO-1449

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

200310949-1

APPLICATION NO.

10/598,111

CONFIRMATION NO.

APPLICANT

Michael HARVILLE

FILING DATE

10/31/03

GROUP

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

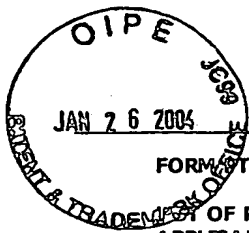
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Nebojsa JOJIC, et al.; "TRACKING SELF-OCCLUDING ARTICULATED OBJECTS IN DENSE DISPARITY MAPS"; Published in IEEE ICCV conference, September 1999
	1R	Michael H. LIN, et al.; "TRACKING ARTICULATED OBJECTS IN REAL-TIME RANGE IMAGE SEQUENCES"; Published in IEEE ICCV conference, September 1999
	1S	Ismail HARITAOGU, et al.; "GHOST: A HUMAN BODY PART LABELING SYSTEM USING SILHOUETTES"; Pages 1-6; Published in 14th International Conference on Pattern Recognition, August 16-20, 1998, Brisbane, Australia

EXAMINER

DATE CONSIDERED

**PATENT APPLICATION**

Sheet 5 of 5

FORM PTO-1449

**OFFICE OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

200310949-1

APPLICATION NO.

10/698,111

CONFIRMATION NO.

APPLICANT

Michael HARVILLE

FILING DATE

10/31/03

GROUP

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Thad STARNER, et al.; "REAL-TIME AMERICAN SIGN LANGUAGE RECOGNITION USING DESK AND WEARABLE COMPUTER BASED VIDEO"; Pages 1-2, 4-5 and 7; M.I.T. Media Laboratory Perceptual Computing Section Technical Report No. 466
1R	Shoichiro IWASAWA, et al.; "REAL-TIME HUMAN POSTURE ESTIMATION USING MONOCULAR THERMAL IMAGES" Pages 492-497; Published in Third International Conference on Automatic Face and Gesture Recognition, Nora, Japan, April 14-16, 1998
1S	

EXAMINER

DATE CONSIDERED